ABSTRACT

Final Project: DEVELOPMENT OF SMALL SCALE DISTRIBUTED STEAM POWER PLANT (14 MW) IN MELAK EAST BORNEO AS PT.PLN PROGRAM TO SOLVE ELECTRICITY CRISIS IN EAST INDONESIA

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Population growth and economic development of East Kalimantan affect the amount of electrical energy demand in the province. With the increasing demand for electrical energy, it is necessary to set up new plants. Then the government issued a policy of diversification of electricity of 10,000 MW set the stage II on January 27, 2010. Program of small-scale coal power plant and spread over 70 locations in Western and Eastern Indonesia Indonesia planned by PLN to solve electricity crisis that occurred in the region and to lower the basic cost of providing electricity to replace gasoline generator. One plant is planned to be built is Melak power plant with a capacity of 14 MW. Power plant planning is done by the method of multiple linear regression that results will be compared to the DKL method 3.01. With this construction, the electricity crisis can be resolved for a while and basic costs provision in East Kalimantan can be reduced.

Keywords : Small-scale power plant, power plant Melak 14 MW, 10,000 MW Program plant